

***Appendix XVII. Metropolitan Waste Water Department
Sewer Overflow Response and Tracking Plan (SORPT)
References***

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Sewer Overflow Response and Tracking Plan

City of San Diego
Metropolitan Wastewater Department
June 2007 DD-D-001.0 Rev 4



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1.0 INTRODUCTION

This Sewer Overflow Response and Tracking Plan addresses Section II.A of the EPA Administrative Order, Docket No. CWA-309-9-02-17. The report documents modifications to the plans, processes, and procedures that ensure that all sanitary sewer overflows are identified, responded to, investigated, and reported in an effective and timely manner. This document supersedes the previous version of the Sewer Overflow Response Plan distributed on May 16, 2001.

The Appendices of this document include several documents that support the Sewer Overflow Response and Tracking Plan. The Appendices include:

- **Appendix A - Sewer Overflow Response and Tracking Diagram**
This diagram illustrates the current overflow response and tracking processes performed by the City of San Diego Wastewater Collection Division. It tracks the process from the time the City receives a customer complaint through the response, resolution, and reporting process.
- **Appendix B - WWC Event Notification List**
This list identifies all parties that are notified in the event of a sanitary sewer overflow. The parties that are notified are dependent on the type, magnitude, and location of the event.
- **Appendix C – Estimation of Spill Volume**
This appendix identifies several approaches that can be used to estimate the volume of a sanitary sewer overflow. The person preparing the estimate is responsible for choosing the most appropriate approach to the sewer overflow in question. The choice of volume estimation method will depend on the best information that is available at the time the flow volume is estimated.
- **Appendix D - Sewer Overflow Internal and External Reporting Forms**
This appendix contains the internal and external reporting forms used to document and report sanitary sewer overflows. These forms include modifications to sewer overflow reporting to incorporate trunk sewer name and canyon name for sanitary sewer overflows from trunk sewers or canyon sewers. These modifications address EPA Administrative Order Section II.A.1 that identifies requirements for enhanced spill reporting.
 - Internal Report (Pages D-2 and D-3) - This form captures data used to track sanitary sewer spills.

- External Report (Pages D-4 and D-5) - This form is used to report sanitary sewer overflows to the Regional Water Quality Control Board (RWQCB) and the San Diego County Department of Environmental Health (DEH).
- External Private Spill Report (Page D-6) - This form is used to report private spills to the RWQCB and the DEH for sanitary sewer overflows that are responded to by the City of San Diego.
- **Appendix E – Sewer Overflow Tracking Reports**

This appendix contains samples of current reports used by the City of San Diego Wastewater Collection Division to track sanitary sewer overflows. Reports are periodically reviewed and revised to increase tracking and reporting accuracy and to capture and report new data.

2.0 REGULATORY REQUIREMENTS

2.1 EPA Finding of Violation and Order dated April 5, 2002, Order Section II.A.

Spill Response and Tracking Plan: By June 30, 2002, the City of San Diego shall revise its Spill Response and Tracking Plan to include each of the following enhancements to the City's existing Spill Response Plan, and submit such revised Spill Response and Tracking Plan to EPA:

1. The City shall enhance current spill reporting to assist in identification and tracking of particular problem areas. At a minimum, the City's spill records and reports submitted to the Regional Board shall list the name of the trunk sewer (for spills from trunk sewers), the name of the canyon (for spills from canyon sewers), the total spill volume, the volume returned to the system, the volume not captured, and all other spill information required to be reported pursuant to Regional Board Order WDR 96-04.
2. The City shall include new standard communication procedures in order to ensure that spill reports received from the public are conveyed to the appropriate crews for action in a timely manner. The City shall have response crews available for response to spills 24 hours per day, 7 days per week. The City shall make all reasonable efforts to respond to a spill site within 30 minutes of becoming notified of a spill unless prevented from doing so by circumstances outside of the City's control. A spill response log, which includes response times, shall be maintained by the City.

2.2 NPDES Permit Requirements

The operation and maintenance of the City of San Diego MWW wastewater collection system is regulated by the provisions of the Waste Discharge Requirements and National Pollutant Discharge Elimination System (NPDES) Permit for the City of San Diego E.C. Blom Point Loma Wastewater Treatment Plant issued by the California Regional Water Quality Control Board, San Diego Region (Order No. 95-106) and the United States Environmental Protection Agency, Region IX (NPDES Permit No. CA0107409 dated November 9, 1995).

Specific requirements:

1. Sewer overflow reporting: a sewer overflow event is a discharge of treated or untreated wastewater at a location not authorized by waste discharge requirements and/or NPDES Permit which results from a pump station failure, sewer line break, obstruction, surcharge, or any other circumstances.
2. The discharger shall report all sewer overflow events which result in a discharge of

- 1,000 gallons or more, and those sewer overflow events which endanger human health or the environment, in accordance with the following procedures:
- a. If a sewer overflow results in a discharge to surface waters (i.e. watercourse, creek, river, coastal lagoon, ocean, etc.) or a discharge may reach surface waters:
 - (1) The sewer overflow event shall be reported to the County of San Diego, Department of Environmental Health immediately whenever the discharger becomes aware of the sewer overflow event.
 - (2) The sewer overflow event shall be reported to the RWQCB, by telephone, within 24 hours of the time the discharger becomes aware of the sewer overflow event. The telephone report shall include items 1-5, 8, 12A, 12B, and 13 contained in the Sewer Overflow Report (SOR) form supplied by the RWQCB.
 - (3) A SOR form (completed in accordance with the instructions), as well as any additional pertinent information, shall be submitted to the RWQCB no later than five (5) days following the starting date of the sewer overflow event.
 3. If a sewer overflow event does not result in a discharge to the surface waters:
 - a. No telephone report is required.
 - b. A SOR form (completed in accordance with the instructions), as well as any additional pertinent information, shall be submitted no later than five (5) days following the starting date of the overflow event.
 4. By July 31 each year, the discharger shall submit to the Executive Officer a report which analyzes all sewer overflow events (including those sewer overflow events which resulted in a discharge of less than 1,000 gallons which did not endanger human health or the environment) which occurred during the preceding July through June period. The report shall also include a summary by month of the number, volume, locations, causes, and destinations/receiving waters of the responses to sewer overflow events which occurred during the preceding July through June period. This annual summary report shall be used to evaluate sewer overflow prevention and response performance, which will be reviewed at meetings with the RWQCB.
 5. The discharger shall maintain records of all sewer overflow events (including those sewer overflow events which resulted in the discharge of less than 1,000 gallons which did not endanger human health or the environment). Sewer overflow event records shall include all the information specified in the SOR form referred to above.

Sewer overflow event records shall be maintained for a period of at least five (5) years after the date of the sewer overflow event. The Executive Officer may review sewer overflow event records to assist in evaluation of sewer overflow prevention and response performance, which will be reviewed at meetings with the RWQCB. The discharger shall provide sewer overflow event records to the Executive Officer upon request.

2.3 Regional Water Quality Control Board Order 96-04

Order No. 96-04 of the California Regional Water Quality Control Board San Diego Region, "General Waste Discharge Requirements Prohibiting Sanitary Sewer Overflows by Sewage Collection Agencies," adopted on May 9, 1996, prohibits sanitary sewer overflows and establishes uniform sanitary sewer overflow reporting requirements for all federal and local sewage collection agencies in the San Diego Region.

3.0 DEFINITIONS

ASAP

This stands for “As Soon As Possible.” Notification and reporting requirements with this time requirement should be completed at the earliest possible time that does not interfere with or delay the sewer overflow response.

BSO

Bad Sewer Odor

COMC

This refers to the MWWD Central Operations Management Center located at the Metropolitan Operations Center (MOC II) on Topaz Way in Kearney Mesa. COMC shall be staffed full time (24 hours per day, every day of the year).

Department of Environmental Health

This refers to the County Department of Environmental Health.

Duty Supervisor

The Duty Supervisor is the Emergency Response Section Senior Water Utility Supervisor on the day shift, the Night Shift Supervisor, the Weekend Shift Supervisor, or the Standby Supervisor.

EPA

This refers to the United States Environmental Protection Agency.

GWUS

This refers to General Water Utility Supervisor; one of the Section Heads responsible for Sewer Cleaning, Television and Repair, Pump Stations, or Work Planning and Scheduling.

MWWD

This refers to Metropolitan Wastewater Department

OCA

This refers to an employee who has been assigned to work in an Out of Class Assignment.

Overflow

See Sanitary Sewer Overflow.

Public Waters

Any body of water such as the ocean, bay, river, lake, stream, or creek where there is the potential for human contact as defined by the County Department of Environmental Health.

Public Water SSO

A public water spill is determined when signs warning of contamination are posted at a Bay, River, Beach, Creek, Stream or where an area of recreational water usage by the public is possible. Department of Environmental Health (DEH) will advise MWWD/WWC when a posting is needed and will publish a press release. WWC will only report a public water spill (Event Notification) at the direction of DEH. RWQCB relies on DEH to determine when sewage has entered a public water.

RWQCB

This refers to the San Diego Regional Water Quality Control Board.

SAMS

This refers to the Sewer Alarm Monitoring Section. This section monitors the Pump Station Alarms and the permanent flowmeters. Section personnel are located in MOC III adjacent to the WWC Sewer Pump Station section.

Sanitary Sewer Overflow (SSO)

A discharge of sewage from the public collection system of the City of San Diego's sanitary sewer system at any point upstream of the sewage treatment plant.

Significant Sewer Overflow

Any sewer overflow that reaches public waters or that poses a significant threat to the environment, water quality, or the public health. Significant sewer overflows shall be reported to the State Office of Emergency Services, the Regional Water Quality Control Board, and the Department of Environmental Health soon as possible after the overflow is known to have occurred.

Sewage

Any untreated or partially treated wastewater. Reclaimed water is not included in this definition.

Spill

See Sanitary Sewer Overflow

Station 38

The City of San Diego Dispatch Center located at the Chollas Yard, 2871 Caminito Chollas. Telephone number (619) 527-7660. Station 38 shall be staffed full time (24 hours per day, every day of the year).

Storm Water Conveyance System

A creek, bay, stream, river, pond, swail, street, curb and gutters are considered part of the storm water conveyance system.

Surface Waters

A creek, bay, stream, river, pond, Ocean, and all storm drains (open concrete or soil) are considered surface waters. The curb and gutter and all portions of paved roadways are NOT considered surface waters. Surface waters start at storm inlet box per the storm water NPDES. Any overflow that enters a storm drain that is tributary to “Waters of the State” shall be reported as a discharge to surface waters.

SWIM

The Sewer and Water Infrastructure Management System is the City of San Diego’s proprietary computerized maintenance management system.

SWUS

This refers to Senior Water Utility Supervisor.

WWC

This refers to Wastewater Collection Division

4.0 RECEIPT OF INFORMATION REGARDING A SEWER OVERFLOW

4.1 Telephone Calls:

1. All telephone calls from the general public, City employees and officials, plumbers, contractors, and other public and private agencies regarding suspected sewer overflows are routed to Station 38 at (619) 515-3525. The Station 38 operator shall obtain all relevant information regarding the sewer overflow including:
 - Date and time that the call was received.
 - Specific location (address, street name, cross street, city).
 - Characteristics and severity of the overflow.
 - Date and time that the overflow was first noticed by the caller.
 - Caller's name and phone number.
 - Other relevant information.
2. If a caller is uncertain as to the nature of a reported leakage (e.g. fresh water, storm water, street drainage, sewage, etc.), then the Station 38 operator shall obtain additional information to ensure that the appropriate field crew is dispatched. Additional follow up questions should include:
 - Color, consistency, odor, and other appearance characteristics.
 - Precise location relative to streets, alleys, or off-road areas.
 - Type of structure (e.g. manhole, gate valve cover, meter box).
3. The Station 38 operator shall enter sewer overflow information in the SWIM and assign a unique Service Request Number.

4.2 Other Sources of Information Regarding Sewer Overflows:

Sewer Pump Station Alarms shall be monitored by WWC Staff (SAMS) during normal working hours and by COMC Staff after hours. The COMC Staff shall immediately notify Pump Station personnel via pager or telephone upon receipt of a pump station alarm event.

Trunk Sewer Flow Meters shall be monitored by the WWC Staff on normal working days and by the COMC operators after hours, weekends and holidays to detect major deviations in sewage flow. WWC staff/COMC operator shall immediately notify the Duty Supervisor by pager and then by telephone of potential trunk sewer overflows.

5.0 DISPATCH OF APPROPRIATE CREWS TO SITE OF SEWER SPILL

1. Station 38 and/or COMC operators shall immediately notify the Duty Supervisor first by pager and then by mobile radio regarding sewer overflows:

Table 5-1: Notification Information

Shift	Day and Time	Shift/Duty Supervisor*
Day	Monday- Friday (except holidays) 7:00 am – 3:30 pm	Emergency Response Section SWUS
Night	Monday – Thursday (except holidays) 3:30 pm – 1:00 am	Night Shift SWUS
Weekend	Friday 7:00 am – 9:00 pm Saturday – Sunday 7:00 am – 9:00 pm (except Holidays)	Weekend Shift SWUS
Grave Yard	Sunday – Saturday (except holidays) 8:30 p.m. – 7:30 a.m.	Graveyard Shift Equipment Operator I
	Holidays	Standby Supervisor

*This includes employees working in an OCA capacity. Reference MCM organizational chart.

2. Shift/Duty Supervisors shall respond to notifications by Station 38 and/or COMC operators with instructions regarding appropriate crews, materials, supplies, and equipment to be dispatched.
3. Station 38 and/or COMC operators shall immediately dispatch field crews by pager, mobile radio, or telephone.
4. Station 38 and/or COMC operators shall ensure that the entire message has been received and acknowledged by the field crews who were dispatched. No message is considered complete unless acknowledged by the field crew.
5. Station 38 and/or COMC operators shall refer all pertinent information to the next shift including any details of the problems described by customers including unconfirmed reports of sewage overflows.
6. Duty Supervisors shall monitor all dispatches due to sewer overflows to assure that an appropriate resolution has been achieved.

6.0 COMMUNICATION AND RESPONSIBILITIES DURING SEWER OVERFLOW RESPONSE

1. Station 38 operators shall receive, convey to appropriate parties, and dispatch requests for additional personnel, material, supplies, and equipment from crews working at the site of a sewer overflow.
2. If the Station 38 operator has not received a report of findings from the responding field crew within 30 minutes of their arrival at the spill site, the Station 38 operator will contact the field crew to determine the status of their investigation. If the responding field crew has been unable to locate the reported leakage, the Station 38 operator shall provide assistance by contacting the original caller(s) to either provide additional information or to meet with the field crew at the spill site.
3. Any delays or conflicts in assignments are to be immediately reported to the Duty Supervisor or to the Station 38 operator for resolution.
4. If a spill cannot be located or a BSO complaint does not result in discovery of a sewer spill, the Duty Supervisor may determine a sample of nearby public waters be taken.
5. The responding field crew shall meet with the original caller, if at all possible, before making a determination that the overflow cannot be confirmed.
6. Shift/Duty Supervisors and Standby Supervisors shall complete their investigation of any sewer call they receive during their shift. If they are unable to personally investigate the call then they shall request an update from the Station 38 operator as to the findings of the responding field crew.
7. Shift/Duty Supervisors are required to ensure all calls given to them have been investigated by taking the following actions:
 - The SWIM System Dispatch Screen shall be reviewed at the end of each shift to ensure that all calls given to Emergency Service Units have been investigated.
 - Calls appearing on the SWIM Dispatch Screen that were not investigated shall be referred to the next shift.
8. The Duty Supervisor shall notify the Standby Supervisor of any ongoing sewer overflows at the end of their shift.

7.0 OVERFLOW RESPONSE, CONTAINMENT, CORRECTION, AND CLEAN-UP

1. All employees dispatched to a spill site shall proceed immediately to the site of the overflow. The City's goal is to arrive at the spill site within 30 minutes of the initial report.
2. It is the responsibility of the first City Employee who arrives at the site of a sewer overflow to protect the health and safety of the public:
 - Confirm that an overflow has occurred and immediately report the confirmation to the Station 38 operator.
 - Determine the cause of the overflow (e.g. sewer line blockage, pump station mechanical or electrical failure, sewer line break).
 - Identify and request, if necessary, assistance or additional resources to correct the overflow, to assist in determining its cause, and/or to contain the spilled sewage.
 - Take immediate steps to stop the overflow (e.g. relieve pipeline blockage, manually operate pump station controls, repair the pipe).
3. Areas where public contact with sewage is possible shall be isolated using barricades, signs, or other effective means.
4. The City Crew responding to the incident shall initiate measures to contain the overflowing sewage and to recover as much spilled sewage as possible:
 - Determine the immediate destination of the overflow (e.g. storm drain, canyon floor, street curb gutter, body of water, creek bed).
 - Identify and request, if necessary, assistance or additional resources (materials and equipment) to contain or isolate the overflow.
 - Take immediate steps to contain the overflow (e.g. block storm drain, recover sewage with a vacuum truck, dig or construct containment pond, divert into downstream manhole).
 - When **SSO volume exceeds** the containment capabilities of the Main Cleaning Maintenance Section immediately contact the construction section SWUS for additional resources.
 - The construction SWUS will then dispatch appropriate personnel/equipment and assume containment responsibilities.
 - After normal business hours, 07:00 to 15:30 the duty supervisor or Graveyard Shift Equipment Operator will contact Standby Supervisor for additional containment personnel and/or equipment.
5. The Duty Supervisor will proceed to the site of each confirmed overflow to assure that all provisions of this Sewer Overflow Response and Tracking Plan and other City directives are met.

6. In the event that bypass pumping is required, contact the construction SWUS/Duty Supervisor:
- Install the required pump-around equipment using Table 7-1 to select the pump.

Table 7-1: Pump Capacity Estimating Table

Pump Size, Inches	Estimated Capacity, GPM	Equivalent Gravity Sewer Flow (sewer running half-full)
2 X 2	200	6 inch diameter
4 X 4	600	10 inch diameter
6 X 6	1000	12 inch diameter
8 X 8	1600	15 inch diameter

- Additional pump-around equipment can be obtained from the Emergency Vendor List maintained by the WWC Construction Section. After hours contacts are listed for each vendor.
 - Monitor the by-pass pumping operation periodically or continuously as required.
7. Sewage spill sites shall be thoroughly cleaned as soon as possible after an overflow. No residue will be left that may impact future water quality.
- The sewage spill site shall be secured to prevent public contact until the site has been thoroughly cleaned.
 - Wherever possible, the affected area shall be thoroughly flushed and cleaned of any sewage. Wash-down water shall be contained. Solids and debris shall be flushed, swept, raked, or picked-up by hand, and hauled away for proper disposal.
 - Wherever appropriate (typically in areas with hard surfaces), the affected area shall be deodorized. The materials used for this purpose shall be confined to the immediate area.
 - City Staff shall conduct an assessment of the impacts following a sewage spill. Appropriate mitigations shall be implemented following the assessment.

8.0 PUBLIC NOTIFICATION OF SEWAGE CONTAMINATION

1. Warning signs shall be posted in the vicinity of any water body that is suspected of being contaminated by sewage as determined by County Department of Environmental Health. This will be done as soon as practicable following the initial response to the overflow. Signs should be posted on either side of the point of entry where sewage entered the body of water and the nearest public access point to that body of water. A minimum of seven signs, 50 feet apart, will be posted. Contamination signs shall be doubled-sided so that they are plainly visible.
2. If City Lifeguards are present, they shall be notified immediately to assist in warning bathers. If there are no on-duty lifeguards, the employee or crew shall attempt to gain the attention of the bathers to make them aware of the spill.
3. The Duty Supervisor shall direct field crews to place additional warning signs when requested by the Department of Environmental Health.
4. Field crews posting warning signs will notify the Station 38 operator when the warning signs have been posted.
5. Sewer Pump Station Patrol Units shall inspect posted warning signs twice daily during April through October, and once daily from November through March. Any missing warning signs shall be replaced.
6. Warning Signs shall not be removed except at the direction of Department of Environmental Health.
7. The following provisions shall apply to posting and removing warning signs around Mission Bay.
 - The Department of Environmental Health will notify City Lifeguards of sewage closures or openings of Mission Bay.
 - City Lifeguards will notify:
 - Wastewater Collection Division to post, inspect, and remove warning signs due to sewage-related closures of Mission Bay.
 - Mission Bay lessees and other interested parties.

9.0 REPORTING REQUIREMENTS

1. The Duty Supervisor shall ensure that all appropriate notifications are made in accordance with the Event Notification List documented in *Appendix B*. The Duty Supervisor shall also ensure that all reports are submitted in an accurate and timely manner:

Table 9-1: SSO Reporting Requirements

Type of Overflow	Report to	Timing	Method
Significant	State Office of Emergency Services	ASAP	Phone
	San Diego RWQCB	ASAP	Phone
	Department of Environmental Health	ASAP	Phone
	WWC Event Notification List	ASAP	Phone
	Microbiology Laboratory	ASAP	Phone
All Overflows	MWWD Management (Event Notification list under Management contact)	ASAP	Electronic
	WWCD Deputy Director	ASAP	Electronic
All Overflows	San Diego RWQCB	Quarterly	Electronic
	Department of Environmental Health	Quarterly	Electronic
	USEPA	Quarterly	Electronic
Overflows Caused by Vandalism	San Diego Stormwater Pollution Prevention Program	ASAP	Phone
	San Diego Police Department	ASAP	via Sta. #38
Private Sewers	San Diego RWQCB (use private sewer spill form)	< 24 hours	FAX

2. Preliminary sewer overflow reports should be submitted based on available information. Amended reports shall be submitted as more accurate information is developed. A final report shall be filed within five working days of initial notification of the sewer overflow.
3. The SWUS in charge of the repairs shall notify the Department of Environmental Health on a daily basis regarding the status of repairs being made to address the cause of the reported sewer overflow. This notification requirement includes situations where the flow has been contained but is not flowing through a sewer line or a bypass system.
4. The GWUS shall review all sewer overflow reports initiated within their section for completeness and accuracy. Deficiencies shall be reported to the Deputy Director, the Department of Environmental Health, and the San Diego RWQCB.

10.0 INVESTIGATION OF SEWER OVERFLOWS

1. The purpose of investigating the sewer overflows is to provide information for:
 - Management for performance measurement and decision-making
 - Regulators to meet established reporting requirements
 - Maintenance Planners for decision-making regarding future maintenance activities and whether to repair
 - Engineering for decision-making regarding rehabilitating or replacing a line segment
 - Reference regarding historical performance or claims.
2. The Duty Supervisor shall ensure that all sewer overflows occurring during their shift are properly investigated.
3. The minimum information required from the investigation is:
 - Cause of overflow
 - Volume of overflow including volume released and volume recovered
 - Location of Point of Discharge
 - Ultimate destination of the overflow
 - Impact and Extent of impact
 - Actions taken to mitigate the overflow
 - Response time
 - Notifications to Regulators and Others
4. When photographs are taken, they shall document the activities, investigation, and the level of damage/impacts of the sewer overflow event.

11.0 SSO TRACKING DATABASE AND SEWER OVERFLOW TRACKING

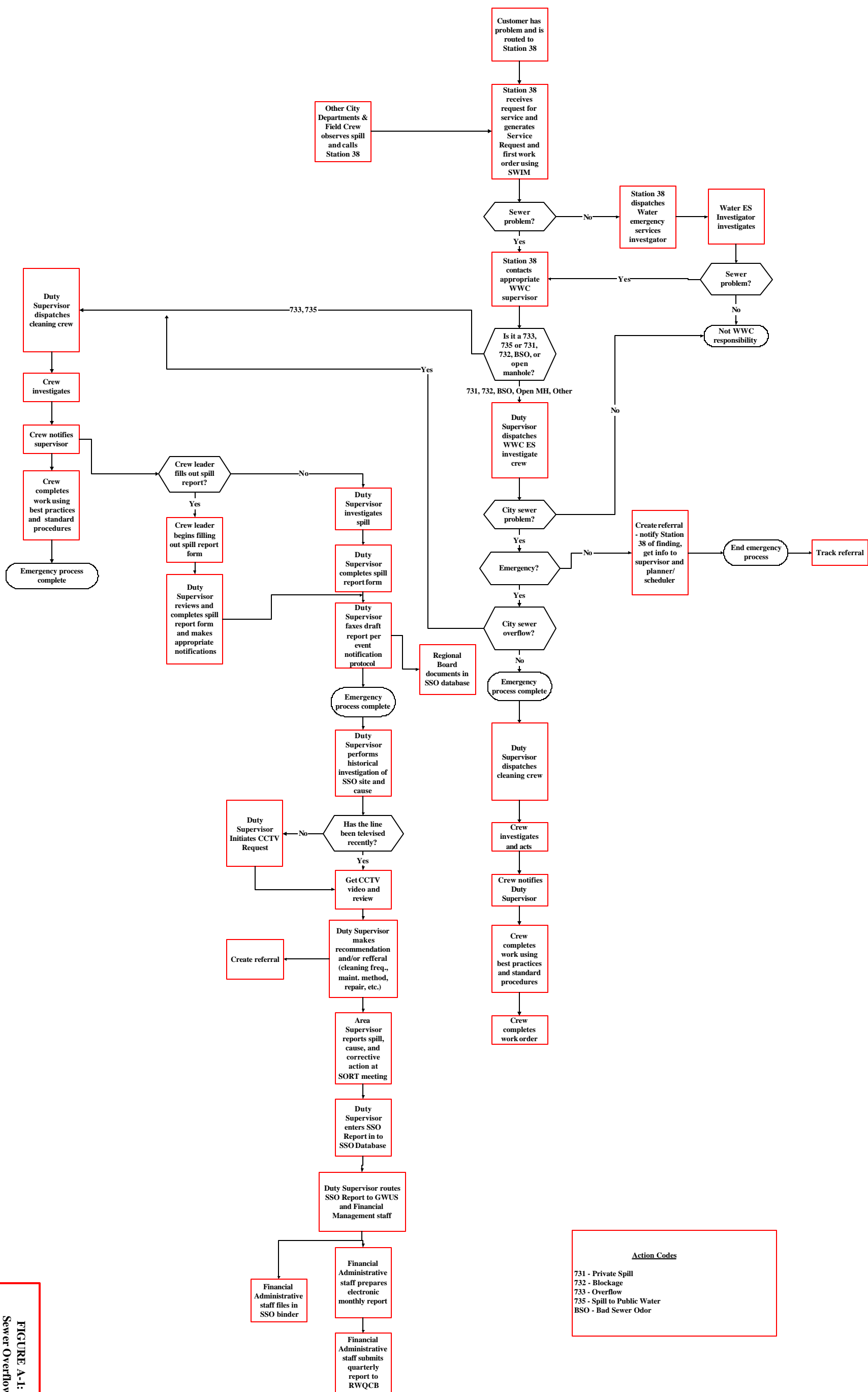
1. Data from the investigation of all sewer overflows shall be entered in the SSO Tracking Database.
2. The Shift/Duty Supervisors and Standby Supervisors shall be responsible for entering the data in the SSO Tracking Database in a timely manner. Original documents created or compiled during the investigation shall be archived in the Administration Section Files. All SSO Tracking information and associated documents shall be retained for five years from the date of the SSO.
3. The WWC Financial Management Section shall be responsible for administering the SSO Database. Database maintenance procedures shall be performed weekly to ensure data integrity.
4. The WWC Financial Management Section shall be responsible for creating all internal and external reports from the SSO Tracking Database.
5. The following internal reports shall be available by WWC staff in adhoc use:
 - SSOs by month, quarter, and calendar year
 - SSOs by cause
 - SSOs by geographical area
 - SSOs by volume

12.0 DISTRIBUTION AND AMENDMENTS TO THE SEWER OVERFLOW RESPONSE AND TRACKING PLAN

1. Updates to the Sewer Overflow Response and Tracking Plan will be made to reflect changes in policies and procedures.
2. The Sewer Overflow Response and Tracking Plan will be reviewed annually on the anniversary of the plan.
3. Copies of the Sewer Overflow Response and Tracking Plan and any amendments will be distributed to:
 - Executive Officer, Regional Water Quality Control Board, San Diego Region.
 - Cognizant City officials of the Metropolitan Wastewater, Water, and Engineering and Capital Projects Departments.
 - All employees of the Wastewater Collection Division.
 - All other City employees who may become directly involved in responding to sewer overflows.

APPENDIX A - Sewer Overflow Response and Tracking Process Diagram

This flow diagram illustrates the current overflow response and tracking processes performed by the City of San Diego Wastewater Collection Division. It tracks the process from the time the City receives a customer complaint through response, resolution, and reporting.



**FIGURE A-1:
Sewer Overflow
Response Tracking
Process Diagram**

APPENDIX B – WWC Event Notification List (DD-D-002.0)

The Event Notification List identifies all parties that are notified in the event of a sanitary sewer overflow. The parties that are notified are dependent on the type, magnitude, and location of the event. This Event Notification List is updated on a regular ad-hoc basis and is illustrated in this SORTP on an annual basis.

METROPOLITAN WASTEWATER DEPARTMENT - WASTEWATER COLLECTION DIVISION

EVENT NOTIFICATION – February 17, 2006

The Duty Supervisor's responsibility is to notify all of the appropriate persons. Any changes to this listing should be sent to the Deputy Director at once.

TYPE OF EVENT

Sewer/Manhole OverflowGroup 3
Sewer Overflow reaching Public Waters including Mission Bay, Pacific Ocean, S.D. River, or S.D. Bay.Group 1, 2, and 3
Emergency Incidents - Definition on page 3Group 1 and 4
Unusual Occurrences - Definition on page 1Group 1

GROUP 1 - Unusual Occurrences:

Wastewater Collection Division Contact:

Notify one of the following in this order:

Chris Toth, Deputy Director

(O) (858) 654-4161 (P) 8755

(H) (619) 440-2897 (C) (619) 990-4718

Bill Denhart, Assistant Deputy Director:

(O) (858) 654-4149 (P) 7072

(H) (619) 444-1930 (C) (619) 980-4267

Robert York, GWUS Main Cleaning Maintenance

(O) (858) 614-4014 (R) 346 (P) 8374

(H) (619) 579-7183 (C) (619) 980-3908

Mike Bedard, GWUS Construction

(O) (858) 654-4154 (R) 353 (P) 8794

(H) (858) 487-1502 (C) (619) 980-8609

Leroy Davis, GWUS Sewer Pump Stations

(O) (858) 654-4163 (R) 347 (P) 8756

(H) (619) 397-4879 (C) (619) 980-8580

Isam Hireish, Senior Civil Engineer

(O) (858) 654-4181 (P) None

(H) (858) 674-9815

EMR Environmental Management

(O) (858) 654-4155

Heather Lade, Public Information Officer

(O) (858) 292-6414 (C) (619) 540-7680

Management Contact:

***Notify one of the following in this order after notifying
Wastewater Collection Division:***

Richard Haas, Deputy Chief of Public Works

(O) (619) 236-6750

(H) (619) 435-1283 (C) (619) 869-0863

Timothy Bertch, PhD, Director

(O) (858) 292-6401 (P) 8196

(H) (619) 807-0149 (C) (619) 961-6696

Robert Ferrier, Assistant Department Director

(O) (858) 292-6402 (P) 2841

(H) (858) 278-8248 (C) (858) 357-6529

GROUP 1 – Unusual Occurrences continued:

Examples of Unusual Occurrences are as follows:

- A. A discharge of 1,000 gallons or greater of sewage.
- B. A significant vehicle or personnel accident of any kind involving an employee and/or the public.
- C. Repeat sewer backups at the same building or residence, resulting in damage claim.
- D. The news media appears on or has inquired about any City force job, station or facility.

GROUP 2 – Sewer Overflows to Public Waters

**Including: Mission Bay, Pacific Ocean, San Diego River,
San Diego Bay, Penasquitos Lagoon and Domestic Water
Supply:**

Timothy Bertch, PhD, Director

(O) (858) 292-6401 (P) 8196

(H) (619) 807-0149 (C) (619) 961-6696

Also, Fax a copy to Director: Fax (858) 292-6420

Robert Ferrier, Assistant Director

(O) (858) 292-6402 (P) 2841

(H) (858) 278-8248 (C) (858) 357-6529

Also, Fax a copy to Assistant Director: Fax (858) 292-6420

Richard Haas, Deputy Chief of Public Works

(O) (619) 236-6750

(H) (619) 435-1283 (C) (619) 869-0863

Also, Fax a copy to Deputy Chief of Public Works

Technical Services Microbiology (during business hours):
(619) 758-2361 - 08:00 a.m. – 5:00 p.m.

Fax (619) 236-6751

Refer to WWCD Standby List and Notify On Call Biologist

FAX a copy of report to ALL Council Districts

If flow reaches Mission Bay, notify all of the following:

Mission Bay District Manager (Primary):

Susan Gonzales (619) 235-1158 or (619) 221-8912

Mission Bay Park District Manager (Secondary)

John Hudkins (619) 235-5914

Cathy Anzuoni (619) 221-8198

GROUP 2 – continued:

If flow reaches Ocean Beaches, Mission Bay, or S.D. River, west of I-5, notify:

S.D. Lifeguards Service

(619) 221-8800 (24 hrs.)

Also, FAX a copy of spill report to (619) 221-8881

If flow reaches San Diego Bay, notify:

San Diego Port District Environmental Management

8 a.m. - 5 p.m. Week Days (619) 686-6254

After Hours & Weekends: (619) 686-6254 Leave message

Also, call Harbor Police:

(619) 686-6272 (24 hrs.)

If Spill comes from Mexico, notify:

Dion McMicheaux, IBWC

(H) (858) 538-3065

If Spill results in the posting of waters of another City, notify

Public Works Director:

Imperial Beach: Hank Levine (619) 423-8311

Coronado: Scott Huth (619) 522-7312

Del Mar: David Scherer (858) 755-3294

24hr Beach Posting (858) 756-1126

Chula Vista: Emergency 24 hr. (619) 397-6000

National City: Steve Kirkpatrick (619) 336-4380

If Spill Reaches a Lake, Reservoir, or Other Domestic Water Supply notify:

Water Operations Division:

Alex Ruiz

(O) (619) 527-7431 (H) Call Sta. 38

State Dept. of Health Services:

Brian Bernados, P.E. Associate Sanitary Engineer

(O) (619) 525-4497 (H) 448-4083

California Department of Fish and Game:

Bill Paznokas

(O) (858) 467-4218 FAX: (858) 467-4299

Public Water SSO – A discharge of sewage, from the public sanitary sewer system of the City of San Diego, which enters a body of water such as Pacific Ocean, bay, river, lake, stream, or creek where there is a potential for human contact as defined by the County Department of Environmental Health.

GROUP 3 – Sewer/ Manhole Overflow

***ALWAYS NOTIFY THE SAN DIEGO COUNTY**

DEPARTMENT OF ENVIRONMENTAL HEALTH:

During Business Hours (DEH):

Clay Clifton

(O) (858) 495-5579

(C) (619) 607-8363

FAX:

(858) 694-3670

D.E.H. - Front Desk:

(619) 338-2222

DEH - Water Quality Hotline

(619) 338-2073

After Business Hours (DEH):

County Communication

(858) 565-5255

Regional Water Quality Control Board (No after hour's service)

(858) 467-2966 or (858) 467-2952

Also, FAX a copy of spill report to RWQCB at (858) 571-6972

Copies of all Public and Private Sewer Spills are to be faxed to the MWW/Director, Mayor's Office and to all Council Offices Impacted by the Sewer Overflow:

FAX Numbers:

Mayor's office; (619) 236-7052

Council District 1 (619) 236-6999

Council District 2 (619) 236-6996

Council District 3 (619) 595-1481

Council District 4 (619) 236-6529

Council District 5 (619) 238-0915

Council District 6 (619) 236-7329

Council District 7 (619) 238-1360

Council District 8 (619) 231-7918

WWD/Director (858) 292-6420

All Sanitary Sewer Overflows notify:

Office of Emergency Service (OES)

(800) 852-7550

Storm Water Pollution Prevention (SWPP)

(619) 235-1000

FAX Spill Report to:

(619) 525-8641

If Spill is from Navy/Marine Facilities, or housing (excluding the Marine Corps Recruit Depot), immediately notify, the Navy Public Works Center:

7/24 - Duty Desk:

(619) 556-7349

FAX:

(619) 556-9471

If Spill is from private or non-city sewer facilities notify:

The Storm Water Pollution Prevention Hotline: (619) 235-1000

FAX Spill Report to:

(619) 525-8641

If Spill is due to Vandalism, notify, San Diego Police Department and the Storm Water Pollution Prevention Hotline to conduct investigation:

Storm Water Pollution Prevention:

(619) 235-1000

San Diego Police Dept. via Station #38

(619) 527-7660

File Electronic Vandal Report (SDPD):

(619) 531-2000

GROUP 4 - Emergency Incidents:

An emergency incident is defined as follows:

A situation, which has or could cause widespread damage, such as significant sewer system failure affecting parts of a community area.

Example of Emergency Incidents are as follows:

- A. Failure of a sewer pipeline 18 inches in diameter or larger or extensive damage caused by a pipeline failure.
- B. Any accident involving an employee which will result in significant lost time, injury, or death.
- C. A sewer stoppage or overflow affecting three or more residences or a commercial or retail establishment.
- D. A sewer pump station failure that cant be immediately corrected on site

Notify, one of the following in this order until live notification is made, subsequently leave pager notification for earlier recipient:

- 1. Chris Toth, Deputy Director, MWWD/WWC
(O) (858) 654-4161 (P) 8755
(H) (619) 440-2897 (C) (619) 990-4718
- 2. Bill Denhart, Assistant Deputy Director
(O) (858) 654-4149 (P) 7072
(H) (619) 444-1930 (C) (619) 980-4267
- 3. Timothy Bertch, PhD, Director, MWWD
(O) (858) 292-6401 (P) 8196
(H) (619) 807-0149 (C) (619) 961-6696
- 4. Bob Ferrier, Assistant Director, MWWD
(O) (858) 292-6402 (P) 2841
(H) (858) 278-8248 (C) (858) 357-6529
- 5. Richard Haas, Deputy Chief of Public Works
(O) (619) 236-6750
(H) (619) 435-1283 (C) (619) 869-0863

Other contact phone numbers:

Station 38:	(619) 527-7660
Sewer Hotline:	(619) 515-3525
COMC:	(858) 614-4551
City Pager:	(619) 232-2237
SAMS	(858) 614-5743
SPAWAR's (access)	(619) 524-7004

APPENDIX C - Spill Volume Estimating

A variety of approaches exist for the estimation of the volume of a sanitary sewer overflow. This appendix documents the three methods that are most often employed by the City of San Diego. The person preparing the estimate should use the method most appropriate to the sewer overflow in question using the best information available. Every effort should be made to make the best possible estimate of the volume. Assistance from the WWC Engineering Section should be sought for larger sewer overflows.

Method 1 Eyeball Estimate

The volume of very small spills can be estimated using an “eyeball estimate.” To use this method imagine the amount of water that would spill from a bucket or a barrel. A bucket contains 5 gallons and a barrel contains 50 gallons. If the spill is larger than 50 gallons, try to break the standing water into barrels and then multiply by 50 gallons. This method is useful for contained spills up to 100 gallons.

Method 2 Measured Volume

The volume of most small spills can be estimated using this method. The shape, dimensions, and the depth of the spilled wastewater are needed. The shape and dimensions are used to calculate the area of the spills and the depth is used to calculate the volume.

Step 1 Sketch the shape of the contained sewage

Step 2 Measure or pace off the dimensions.

Step 3 Measure the depth at several locations

Step 4 Convert the dimensions, including depth to feet.

Step 5 Calculate the area using the following formulas:

Rectangle Area = length x width

Circle Area = $0.785 \times D^2$ (where D is diameter of pipe)

Triangle Area = base x height x 0.5

Step 6 Multiply the area times the depth

Step 7 Multiply the volume by 7.5 to convert it to gallons

Method 3 Duration and Flow Rate

Calculating the volume of spills where it is difficult or impossible to measure the area and depth requires a different approach. In this method a separate estimate is made of the duration of the spill and the flow rate. The methods of estimating duration and flow rate are:

Duration: The duration is the elapsed time from the start time to the time the spill stopped.

Start time is sometimes difficult to establish. Here are some approaches:

Local residents can be used to establish start time. Inquire as to their observations. Spills that occur in rights-of-way are usually observed and reported in short order. Spills that occur out of the public view can go on longer. Sometimes observations like odors or sounds (e.g. water running in a normally dry creek bed) can be used to estimate the start time.

Changes in flow on a downstream flowmeter can be used to establish the start time. Typically the daily flow peaks are “cut off” or flattened by the loss of flow. This can be identified by comparing hourly flow data, when available.

Conditions at the spill site change with time. Initially there will be limited deposits of grease and toilet paper. After a few days to a week, the grease forms a light colored residue. After a few weeks to a month the grease turns dark. In both cases the quantity of toilet paper and other materials of sewage origin increase in amount. These changes with time can be used to estimate the start time in the absence of other information.

End time is usually much easier to establish. Field crews on-site observe the “blow down” that occurs when the blockage has been removed. The “blow down” can also be observed in downstream flowmeters.

Flow Rate: The flow rate is the average flow that left the sewer system during the time of the spill. There are three ways to estimate the flow rate:

San Diego Manhole Flow Rate Chart: This chart shows the sewage flowing from a manhole cover for a variety of flow rates. The observations of the field crew are used to select the approximate flow rate from the chart.

Flowmeter: Changes in flows in the downstream flowmeters can be used to estimate the flow rate during the spill.

Estimate based on up-stream connections: Once the location of the spill is known, the number of upstream connections can be determined from the field books. Multiply the number of connection by 200 to 250 gallons per day per connection or 8-10 gallons per hour per connection.

Once duration and flow rate have been estimated, the volume of the spill is the product of the duration in hours or days times the flow rate in gallons per hour or gallons per day.

APPENDIX D - Sewer Overflow Internal and External Reporting Forms

This appendix contains the internal and external reporting forms used by the City of San Diego to document and report sanitary sewer overflows.

- Internal Report (Pages D-2 and D-3)
This form captures data used to track sanitary sewer spills
- External Report (Pages D-4 and D-5)
This form is used to report sanitary sewer overflows to the Regional Water Quality Control Board (RWQCB) and the San Diego County Department of Environmental Health (DEH).
- External Private Spill Report (Page D-6)
This form is used to report private spills to the RWQCB and the DEH for sanitary sewer overflows that are responded to by the City of San Diego.

Preliminary ☐Final ☐

Revision #: _____

Revised Item #'s _____

**REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) COUNTY HEALTH DEPT.****SANITARY SEWER OVERFLOW (SSO) REPORT FORM**

City of San Diego
Metropolitan Wastewater Department
Wastewater Collection Division

Service Area: _____

Thom. Bros. Pg _____

Field Book Pg _____

Resp. Unit(s) _____

Resp. Name(s): _____

1. SSO Sequential Tracking Number (SR #): _____

2. Reported To: _____

3. Date Reported: _____

(mm/dd/yy)

Time Reported: _____

(24-Hour Clock)

4. Reported By: _____

Phone: _____

5a. Responsible Sewer Agency: _____

☐ Private Spill? (Responsible Party): _____

5b. Reporting Sewer Agency: _____

(Contact Info): _____

6. Overflow Start/Confirm: _____

Date/Time: _____

Notified (date/time) _____

(24-Hour Clock)

Arrived (date/time) _____

(24-Hour Clock)

7. Overflow
*Check One(End): ☐(Ongoing): ☐

Date/Time: _____

Main FSN # _____

Overflowing MH FSN # _____

8. Total Overflow Volume to date (_____ gpm X _____ mins) = _____ (Gallons)

Cleanout? ☐ MHMapID: _____

9a. Overflow Volume Recovered: _____ (Gallons)

9b. Overflow Volume Released to environment: _____ (Gallons)

☐ Indicate if 3rd party estimate

Easement Main? (Y/N) _____

Canyon Main? (Y/N) _____

Canyon Name _____

Trunk? (Y/N) _____

Trunk Name _____

SSO Location:

10. Street or Location Description: _____

11. City/Zip Code: _____ / _____

12. County: _____

13. SSO Structure I.D.: _____

14a. Number of SSOs within 1,000 feet at this location in past 12 Months: _____

14b. Dates of SSOs within 1,000 feet at this location in past 12 Months: _____

*Format: mm/dd/yyyy, mm/dd/yyyy,

SSO Cause:

15. SSO Cause*

Primary: _____

Other: _____

* If more than one cause, use Primary for primary cause and Secondary to indicate secondary cause. If cause is not in pick list, pick other and type in cause on line.

Secondary: _____

Other: _____

Pump Station Involved? _____

Station # _____

Weather Conditions: _____

Was there measurable precipitation during 72-Hour period prior to SSO? _____

16. SSO Cause (detailed description): _____

Corrective Action:

17. SSO Correction - Description of all preventative and corrective measures taken or planned: _____

Initial & Secondary Receiving Waters:

18. Did the SSO enter a storm drain? _____
19. Did the SSO reach surface waters other than a storm drain? _____
20. Name/description of initial receiving waters: (if NONE write NONE) _____
21. Name/description of secondary receiving waters: (if NONE write NONE) _____
22. If SSO did not reach surface waters, what was final destination of sewage? _____
23. Did SSO enter public waters? _____

Public water reached: _____ Other: _____

Other public health exposure? _____ Explain _____

Notifications

24. Was the local health services agency notified? _____ (DEH fax #: 338-2848)

25. OES Confirmation # _____ OES Warning Center Phone: (800) 852-7550

City Claims Notified? _____

Traffic Impacted? _____

Agencies Notified:

- ☐ RWQCB
- ☐ County Health
- ☐ Lifeguard
- ☐ Mayor's Pr. Sec.
- ☐ Council District # _____
- ☐ MWWDD Director
- ☐ Stormwater Poll.
- ☐ General Manager
- ☐ Deputy City Mgr.
- ☐ Other

Affected Area Posting

26. Were signs posted to warn of contamination? _____

If so, location of signs: _____

Did SSO result in a beach closure? _____

Beach Location: _____

27. How many days were the warning signs posted? _____ # of signs posted: _____

28. Remarks: _____

Note: **If the SSO event results in a discharge of more than 1,000 gallons to surface waters, this form must be received by the Regional Board no later than five days after the date notified.**

The following certification must be completed with the five day notice:

I swear under penalty of perjury that the information submitted in this document is true and correct. I certify under penalty of perjury that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature

Name

Title

Date

Distribution: MWWDD Director
Asst. MWWDD Director
Public Information Officer

Fax Number
(858) 292-6420
(858) 292-6420
(858) 292-6420

EXTERNAL SANITARY SEWER OVERFLOW (SSO) REPORT FORM
REGIONAL WATER QUALITY CONTROL BOARD

Via FAX: 1.858.571.6972

To: California Regional Water Quality Control Board, San Diego Region

**From: City of San Diego Metropolitan Wastewater Department
Wastewater Collection System Division
9150 Topaz Way, San Diego, CA 92123-1119**

Subject: Report of Sanitary Sewer Overflow

GENERAL INFORMATION:

#Error

1. Preliminary ☐ Final ☐
2. SANITARY SEWER OVERFLOW SEQUENTIAL TRACKING NUMBER: _____
3. REPORTED TO: _____
4. DATE REPORTED: _____ (MM/DD/YY)
TIME REPORTED: _____ (MILITARY OR 24 HOUR TIME)
5. REPORTED BY: _____
PHONE: _____
6. REPORTING SEWER AGENCY: _____
Public or Private SSO? (Check if Private) ☐ (If Private - Complete Observation of SSO Due to Action of Other - Attachment 3)
7. RESPONSIBLE SEWER AGENCY: _____
8. OVERFLOW START:
DATE: _____ (MM/DD/YY)
TIME: _____ (MILITARY OR 24 HOUR TIME)
WWC Notified: _____
WWC Crew Arrival at Site: _____
9. OVERFLOW END:
DATE: _____ (MM/DD/YY)
TIME: _____ (MILITARY OR 24 HOUR TIME)
10. ESTIMATED OVERFLOW RATE: _____
11. TOTAL OVERFLOW VOLUME: _____
12. OVERFLOW VOLUME RECOVERED: _____
13. OVERFLOW VOLUME RELEASED TO ENVIRONMENT: _____

SANITARY SEWER OVERFLOW LOCATION AND DESCRIPTION:

14. STREET ADDRESS: _____
15. CITY: _____ ZIP CODE: _____
16. County: _____
17. SANITARY SEWER OVERFLOW STRUCTURE I.D.: _____
17a. Canyon Main? _____ 17b. Trunk? _____
Canyon Main Name: _____ Trunk Name: _____
18. NUMBER OF OVERFLOWS WITHIN 1000 FT. OF THIS LOCATION IN PAST 12 MONTHS: _____
19. DATES OF OVERFLOWS WITHIN 1000 FT. OF THIS LOCATION IN PAST 12 MONTHS: _____

EXTERNAL SANITARY SEWER OVERFLOW (SSO) REPORT FORM
REGIONAL WATER QUALITY CONTROL BOARD

20. OVERFLOW CAUSE - SHORT DESCRIPTION: _____

21. OVERFLOW CAUSE - DETAILED DESCRIPTION OF CAUSE _____

22. SANITARY SEWER OVERFLOW CORRECTION -- DESCRIPTION OF ALL PREVENTATIVE AND CORRECTIVE MEASURES TAKEN OR PLANNED. _____

23. WAS THERE MEASURABLE PRECIPITATION DURING 72-HOURS PERIOD PRIOR TO THE OVERFLOW? _____

INITIAL AND SECONDARY RECEIVING WATERS

24. DID THE SANITARY SEWER OVERFLOW ENTER A STORM DRAIN? _____

25. DID THE SANITARY SEWER OVERFLOW REACH SURFACE WATERS OTHER THAN A STORM DRAIN? _____

26. NAME OR DESCRIPTION OF INITIAL RECEIVING WATERS. (IF NONE, TYPE NONE.) _____

27. NAME OR DESCRIPTION OF SECONDARY RECEIVING WATERS. (IF NONE, TYPE NONE.) _____

28. IF THE SANITARY SEWER OVERFLOW DID NOT REACH SURFACE WATERS, DESCRIBE THE FINAL DESTINATION OF SEWAGE. _____

NOTIFICATION:

29. WAS THE LOCAL HEALTH SERVICES AGENCY NOTIFIED? _____

30. IF THE OVERFLOW WAS OVER 1,000 GALLONS, WAS THE OFFICE OF EMERGENCY SERVICES (OES) NOTIFIED? Y

AFFECTED AREA POSTING:

31. WERE SIGNS POSTED TO WARN OF CONTAMINATION? _____

32. LOCATION OF POSTING (IF POSTED): _____

33. HOW MANY DAYS WERE THE WARNING SIGNS POSTED? _____

34. REMARKS: _____

CERTIFICATION:

I swear under penalty of perjury that the information submitted in this document is true and correct. I certify under penalty or perjury that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature

Name

Title

Date

Report of Private Property Sanitary Sewer Overflow

To: California Regional Water Quality Control Board, San Diego Region

From: City of San Diego Metropolitan Wastewater Department
Wastewater Collection System Division
9150 Topaz Way, San Diego, CA 92123-1119

Subject: OBSERVATION OF SSO DUE TO ACTION OF OTHERS

1. Overflow Information

a. Date _____

b. Time _____ (Military or 24 Hour)

c. Location

Street Address: _____

City: _____

ZipCode: _____

2. Estimate Volume (if Possible) _____ gallons

3. Contact information for responsible person (if known)

Responsible Party: _____

Responsible Party Info: _____

4. Contact information for person making the report

Name: _____

Phone: _____

5. Brief narrative of events and observations:

APPENDIX E – Sewer Overflow Tracking Reports

These are samples of current reports used by the City of San Diego Wastewater Collection Division to track spills. Reports are periodically reviewed and revised to increase tracking and reporting accuracy and to capture and report new data.

RESPONSE TIME REPORT**01/01/2007 to 05/31/2007**

SR #	SSO Start	Notified	Arrival	<u>RESPONSE TIME</u>		SSO Stop	<u>CONTAINMENT TIME</u>		Indicator
				<u>Notified Vs Arrival</u>	<u>(minutes)</u>		<u>Start Vs Stop</u>	<u>(minutes)</u>	
2966112	1/5/2007 4:21:00PM	1/5/2007 4:23:00PM	1/5/2007 4:50:00PM	27		1/5/2007 7:30:00PM	189	29	OK
2966145	1/5/2007 8:44:00PM	1/5/2007 8:46:00PM	1/5/2007 9:00:00PM	14		1/5/2007 10:25:00PM	101	16	OK
2969176	1/22/2007 11:13:00AM	1/22/2007 11:13:00AM	1/22/2007 11:40:00AM	27		1/22/2007 12:50:00PM	97	27	OK
2971423	2/1/2007 7:13:00PM	2/1/2007 7:13:00PM	2/1/2007 7:17:00PM	4		2/1/2007 7:45:00PM	32	4	OK
2971471	2/2/2007 7:20:00AM	2/2/2007 7:20:00AM	2/2/2007 7:30:00AM	10		2/2/2007 7:30:00AM	10	10	OK
2971502	2/2/2007 12:19:00PM	2/2/2007 12:20:00PM	2/2/2007 12:35:00PM	15		2/2/2007 1:20:00PM	61	16	OK
2971737	2/6/2007 7:56:00AM	2/6/2007 7:57:00AM	2/6/2007 8:20:00AM	23		2/6/2007 10:15:00AM	139	24	OK
2971981	2/6/2007 11:36:00AM	2/6/2007 11:37:00AM	2/6/2007 11:55:00AM	18		2/6/2007 2:15:00PM	159	19	OK
2973164	2/13/2007 2:17:00PM	2/13/2007 2:18:00PM	2/13/2007 2:30:00PM	12		2/13/2007 3:05:00PM	48	13	OK
2973299	2/14/2007 10:52:00AM	2/14/2007 10:53:00AM	2/14/2007 11:15:00AM	22		2/14/2007 11:43:00AM	51	23	OK
2974511	2/23/2007 6:12:00PM	2/23/2007 6:14:00PM	2/23/2007 7:30:00PM	76		2/23/2007 8:10:00PM	118	78	OK
2975491	3/2/2007 9:29:00AM	3/2/2007 9:30:00AM	3/2/2007 9:50:00AM	20		3/2/2007 10:15:00AM	46	21	OK
2975522	3/2/2007 10:33:00AM	3/2/2007 10:34:00AM	3/2/2007 10:55:00AM	21		3/2/2007 10:38:00AM	5	22	OK
2975701	3/3/2007 8:12:00AM	3/3/2007 8:13:00AM	3/3/2007 8:35:00AM	22		3/3/2007 8:45:00AM	33	23	OK
2975932	3/5/2007 1:02:00PM	3/5/2007 1:02:00PM	3/5/2007 1:02:00PM	0		3/5/2007 1:03:00PM	1	0	OK
2976416	3/8/2007 11:32:00AM	3/8/2007 11:33:00AM	3/8/2007 11:45:00AM	12		3/8/2007 12:25:00PM	53	13	OK
2976871	3/12/2007 11:02:00AM	3/12/2007 11:03:00AM	3/12/2007 11:30:00AM	27		3/12/2007 2:30:00PM	208	28	OK
2977242	3/14/2007 2:35:00PM	3/14/2007 2:52:00PM	3/14/2007 3:15:00PM	23		3/14/2007 4:30:00PM	115	40	OK
2977739	3/16/2007 1:13:00PM	3/16/2007 1:14:00PM	3/16/2007 1:35:00PM	21		3/16/2007 2:30:00PM	77	22	OK
2977835	3/17/2007 10:54:00AM	3/17/2007 10:56:00AM	3/17/2007 11:00:00AM	4		3/17/2007 11:45:00AM	51	6	OK
2979242	3/27/2007 1:13:00PM	3/27/2007 1:14:00PM	3/27/2007 1:35:00PM	21		3/27/2007 1:55:00PM	42	22	OK
2980198	4/2/2007 9:30:00AM	4/2/2007 9:30:00AM	4/2/2007 9:30:00AM	0		4/2/2007 10:28:00AM	58	0	OK
2980613	4/3/2007 12:17:00PM	4/3/2007 12:17:00PM	4/3/2007 12:45:00PM	28		4/3/2007 1:10:00PM	53	28	OK

SR #	SSO Start		Notified		Arrival		RESPONSE TIME	CONTAINMENT TIME			Indicator	
							Notified Vs Arrival (minutes)	SSO Stop	Start Vs Stop (minutes)	Start Vs Arrival (minutes)		
2981201	4/7/2007	1:22:00PM	4/7/2007	1:22:00PM	4/7/2007	1:40:00PM	18	4/7/2007	1:55:00PM	33	18	OK
2982768	4/18/2007	6:24:00PM	4/18/2007	6:29:00PM	4/18/2007	6:51:00PM	22	4/18/2007	8:00:00PM	96	27	OK
2983253	4/23/2007	10:36:00AM	4/23/2007	10:28:00AM	4/23/2007	10:55:00AM	27	4/23/2007	11:40:00AM	64	19	OK
2983357	4/23/2007	3:53:00PM	4/23/2007	3:53:00PM	4/24/2007	8:20:00AM	987	4/24/2007	9:13:00AM	1040	987	OK
2984130	4/26/2007	8:35:00PM	4/27/2007	7:39:00AM	4/27/2007	7:55:00AM	16	4/27/2007	8:00:00AM	685	680	OK
2984246	4/27/2007	8:45:00PM	4/27/2007	8:45:00PM	4/27/2007	8:45:00PM	0	4/27/2007	10:10:00PM	85	0	OK
2984261	4/28/2007	9:45:00AM	4/28/2007	9:48:00AM	4/28/2007	10:10:00AM	22	4/28/2007	10:30:00AM	45	25	OK
2985537	5/2/2007	9:02:00AM	5/2/2007	9:04:00AM	5/2/2007	9:22:00AM	18	5/2/2007	9:25:00AM	23	20	OK
2985742	5/3/2007	3:07:00PM	5/3/2007	3:15:00PM	5/3/2007	3:45:00PM	30	5/3/2007	5:00:00PM	113	38	OK
2985810	5/4/2007	8:31:00AM	5/4/2007	8:34:00AM	5/4/2007	8:50:00AM	16	5/4/2007	9:00:00AM	29	19	OK
2986089	5/7/2007	5:44:00AM	5/7/2007	5:48:00AM	5/7/2007	6:15:00AM	27	5/7/2007	7:28:00AM	104	31	OK
2986388	5/8/2007	11:57:00AM	5/8/2007	11:59:00AM	5/8/2007	12:15:00PM	16	5/8/2007	12:20:00PM	23	18	OK
2986852	5/11/2007	10:08:00AM	5/11/2007	10:09:00AM	5/11/2007	10:39:00AM	30	5/11/2007	11:25:00AM	77	31	OK
2990234	5/28/2007	6:04:00PM	5/28/2007	6:05:00PM	5/28/2007	6:25:00PM	20	5/28/2007	7:25:00PM	81	21	OK

SSO Summary

Run Date: 6/1/2007

City Spills

Public Water Reached?		No					
Srvc Area	Spill Start Date	SR#	Total Overflow	Total Recovery	Total Released	Water Reached	Other Water(s)
CE	01/05/2007	2966112	189	0	189		
CE	01/05/2007	2966145	505	0	505		
RC	01/22/2007	2969176	97	0	97		
CE	02/01/2007	2971423	32	0	32		
MI	02/02/2007	2971471	50	0	50		
MI	02/02/2007	2971502	305	305	0		
CE	02/06/2007	2971737	139	0	139		
RC	02/06/2007	2971981	159	0	159		
MI	02/13/2007	2973164	960	0	960		
CE	02/14/2007	2973299	51	0	51		
CO	02/23/2007	2974511	590	500	90		
RC	03/02/2007	2975522	25	25	0		
CE	03/03/2007	2975701	165	165	0		
CE	03/05/2007	2975932	1500	1100	400		
CE	03/08/2007	2976416	53	0	53		
CE	03/14/2007	2977242	230	0	230		
MI	03/16/2007	2977739	2772	2000	772		
MI	03/17/2007	2977835	1275	800	475		
CE	03/27/2007	2979242	630	100	530		
CO	04/02/2007	2980198	2900	1000	1900		
RC	04/03/2007	2980613	2650	2000	650		
CE	04/07/2007	2981201	165	165	0		
CE	04/18/2007	2982768	960	800	160		
MI	04/23/2007	2983253	4800	3800	1000		
CO	04/24/2007	2983357	26000	18000	8000		
CE	04/27/2007	2984130	6850	6850	0		
CE	04/27/2007	2984246	85	0	85		
CE	04/28/2007	2984261	135	135	0		
CE	05/02/2007	2985537	115	50	65		

City Spills

Public Water Reached? No

Srv Area	Spill Start Date	SR#	Total Overflow	Total Recovery	Total Released	Water Reached	Other Water(s)
CE	05/03/2007	2985742	113	80	33		
CE	05/04/2007	2985810	145	0	145		
MI	05/07/2007	2986089	1560	500	1060		
CE	05/08/2007	2986388	115	0	115		
CO	05/11/2007	2986852	385	0	385		
RC	05/28/2007	2990234	4050	2400	1650		

Section Summary**

Public Water Reached? No

Total # of Spills	35
Total Overflow Volume	60.76
Total Volume Recovered	40.78
Total Volume Released	19.98
% Volume Recovered	67.11 %

Public Water Reached? Yes

Srv Area	Spill Start Date	SR#	Total Overflow	Total Recovery	Total Released	Water Reached	Other Water(s)
RC	03/02/2007	2975491	2300	1000	1300	Mission Bay	Pacific Ocean
CE	03/12/2007	2976871	41600	13000	28600	Alvarado Creek	San Diego River

Section Summary**

Public Water Reached? Yes

Total # of Spills	2
Total Overflow Volume	43.90
Total Volume Recovered	14.00
Total Volume Released	29.90
% Volume Recovered	31.89 %

City Spills

Report Summary

Total # of Spills	37
Total Overflow Volume	104.66
Total Volume Recovered	54.78
Total Volume Released	49.88
% Volume Recovered	52.34%
Total # of Spills Per 100 Miles of Pipe*	1.31

**Note: Based on 2,819 miles of piping*

***Note: All Summary Volumes are in Thousands*

Authentication Stamping

Date Generated: 6/1/2007 2:06:44 PM

Run Parameters for this Report

Start Date: 1/1/2007

End Date: 5/31/2007

City Spills Only